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Coursera - Creating an AWS EC2 Autoscaling Group using Load Balancer

Generated on December 20, 2023

Summary

Notes	Screenshots	Bookmarks
3	12	0

Task 5:

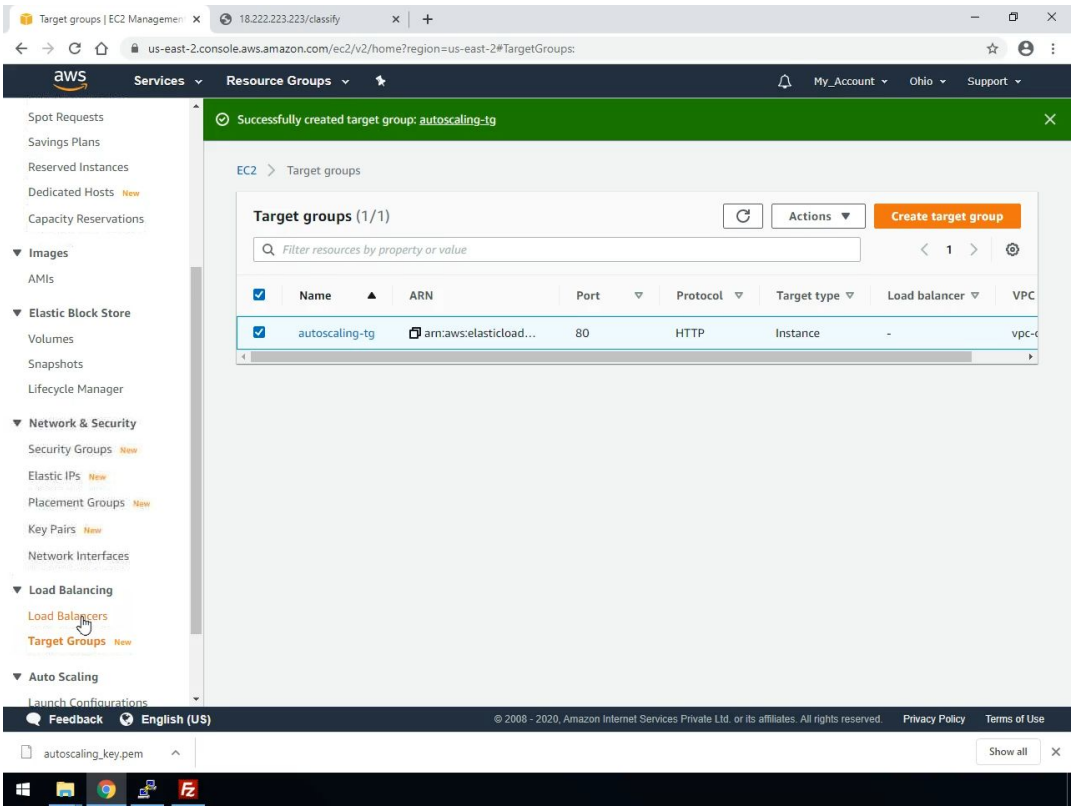
Creating A Load Balancer

0:03

it distributed the traffic among the isntances

present in our auto-scaling group

0:26


Target groups | EC2 Management
18.222.223.223/classify
us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#TargetGroups:
Services
Resource Groups
My_Account
Ohio
Support
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Images
AMIs
Elastic Block Store
Volumes
Snapshots
Lifecycle Manager
Network & Security
Security Groups
Elastic IPs
Placement Groups
Key Pairs
Network Interfaces
Load Balancing
Load Balancers
Target Groups
Auto Scaling
Launch Configurations
Successfully created target group: autoscaling-tg
EC2 > Target groups
Target groups (1/1)
Actions
Create target group
Filter resources by property or value
Name
ARN
Port
Protocol
Target type
Load balancer
VPC
autoscaling-tg
arn:aws:elasticload...
80
HTTP
Instance
Feedback
English (US)
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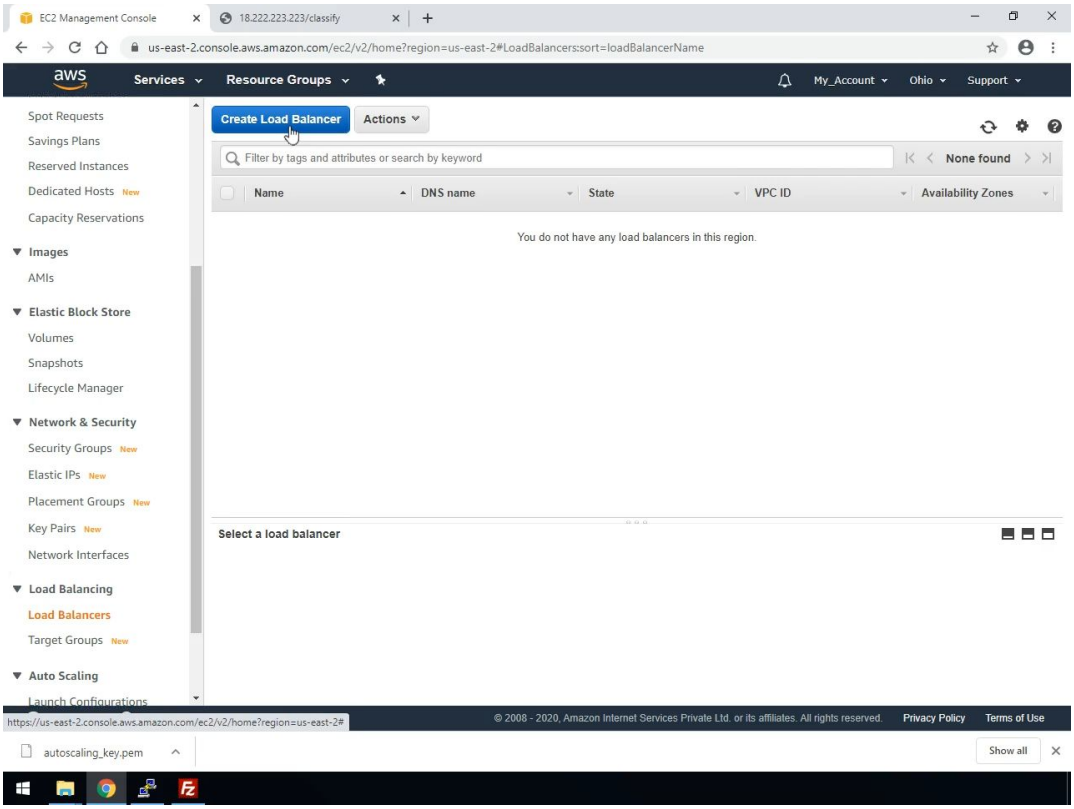
0:42


EC2 Management Console
18.222.223.223/classify
us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LoadBalancers:sort=loadBalancerName
Services
Resource Groups
My_Account
Ohio
Support
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Images
AMIs
Elastic Block Store
Volumes
Snapshots
Lifecycle Manager
Network & Security
Security Groups
Elastic IPs
Placement Groups
Key Pairs
Network Interfaces
Load Balancing
Load Balancers
Target Groups
Auto Scaling
Launch Configurations
Create Load Balancer
Actions
Filter by tags and attributes or search by keyword
None found
Name
DNS name
State
VPC ID
Availability Zones
You do not have any load balancers in this region.
Select a load balancer
https://us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#
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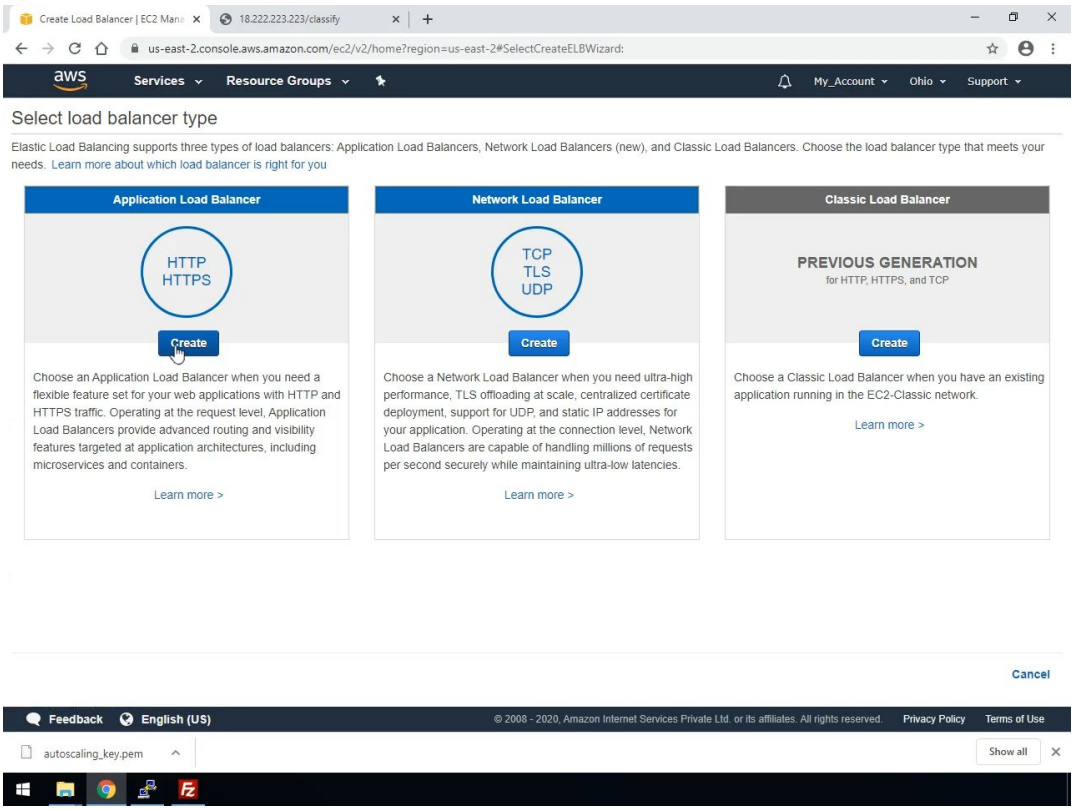
0:50


Create Load Balancer | EC2 Mana
18.222.223.223/classify
us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#SelectCreateELBWizard:
aws
Services
Resource Groups
My_Account
Ohio
Support
Select load balancer type
Elastic Load Balancing supports three types of load balancers: Application Load Balancers, Network Load Balancers (new), and Classic Load Balancers. Choose the load balancer type that meets your needs. Learn more about which load balancer is right for you
Application Load Balancer
HTTP
HTTPS
Create
Choose an Application Load Balancer when you need a flexible feature set for your web applications with HTTP and HTTPS traffic. Operating at the request level, Application Load Balancers provide advanced routing and visibility features targeted at application architectures, including microservices and containers.
Learn more >
Network Load Balancer
TCP
TLS
UDP
Create
Choose a Network Load Balancer when you need ultra-high performance, TLS offloading at scale, centralized certificate deployment, support for UDP, and static IP addresses for your application. Operating at the connection level, Network Load Balancers are capable of handling millions of requests per second securely while maintaining ultra-low latencies.
Learn more >
Classic Load Balancer
PREVIOUS GENERATION
for HTTP, HTTPS, and TCP
Create
Choose a Classic Load Balancer when you have an existing application running in the EC2-Classic network.
Learn more >
Cancel
Feedback
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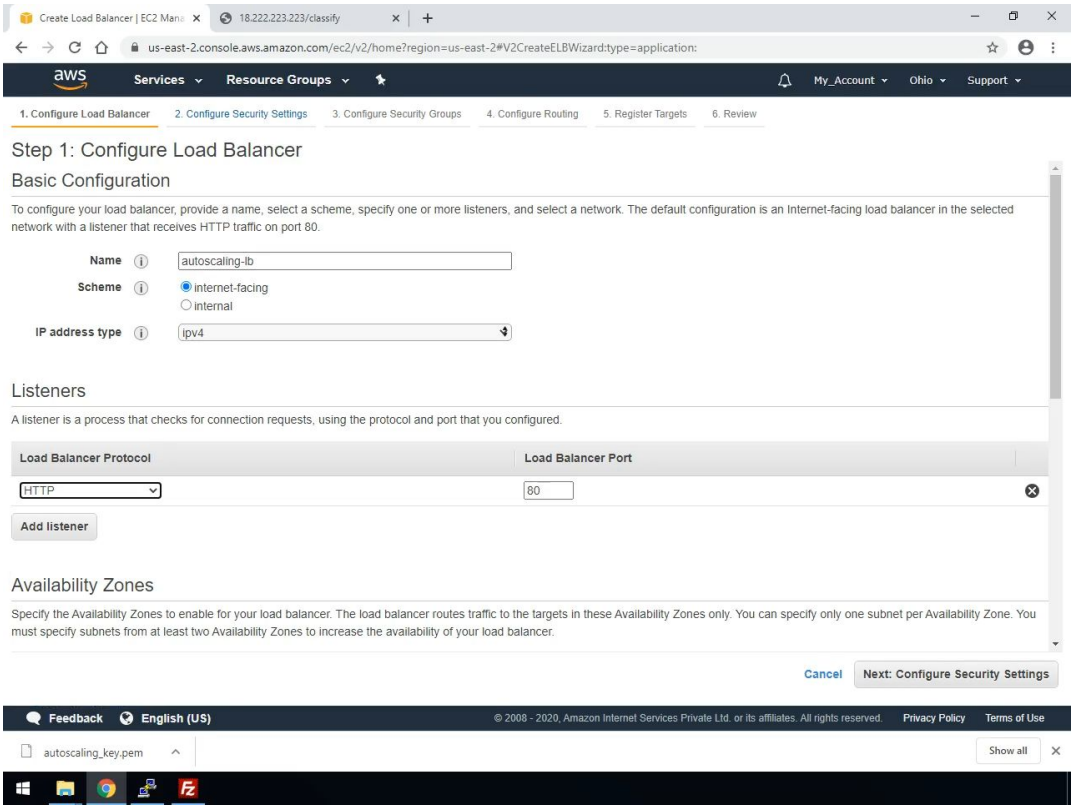
0:59


Create Load Balancer | EC2 Mana
18.222.223.223/classify
us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#V2CreateELBWizard:type=application:
aws
Services
Resource Groups
My_Account
Ohio
Support
1. Configure Load Balancer
2. Configure Security Settings
3. Configure Security Groups
4. Configure Routing
5. Register Targets
6. Review
Step 1: Configure Load Balancer
Basic Configuration
To configure your load balancer, provide a name, select a scheme, specify one or more listeners, and select a network. The default configuration is an Internet-facing load balancer in the selected network with a listener that receives HTTP traffic on port 80.
Name
autoscaling-lb
Scheme
internet-facing
internal
IP address type
ipv4
Listeners
A listener is a process that checks for connection requests, using the protocol and port that you configured.
Load Balancer Protocol
Load Balancer Port
HTTP
80
Add listener
Availability Zones
Specify the Availability Zones to enable for your load balancer. The load balancer routes traffic to the targets in these Availability Zones only. You can specify only one subnet per Availability Zone. You must specify subnets from at least two Availability Zones to increase the availability of your load balancer.
Cancel
Next: Configure Security Settings
Feedback
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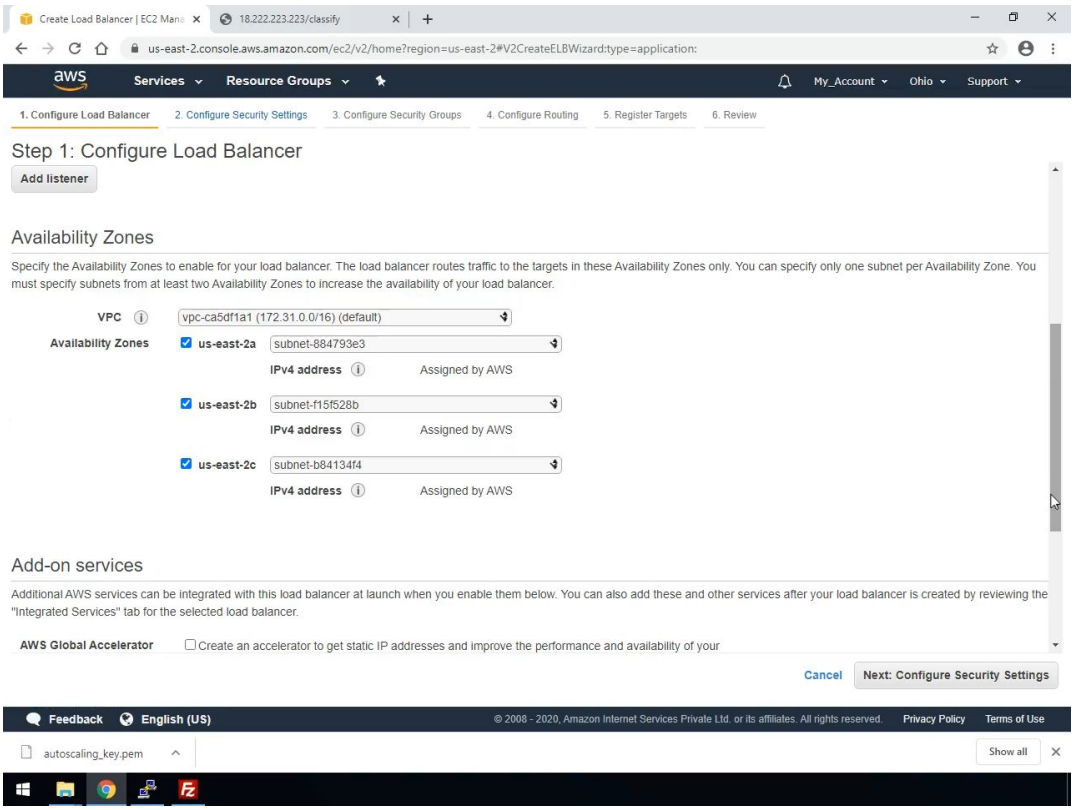
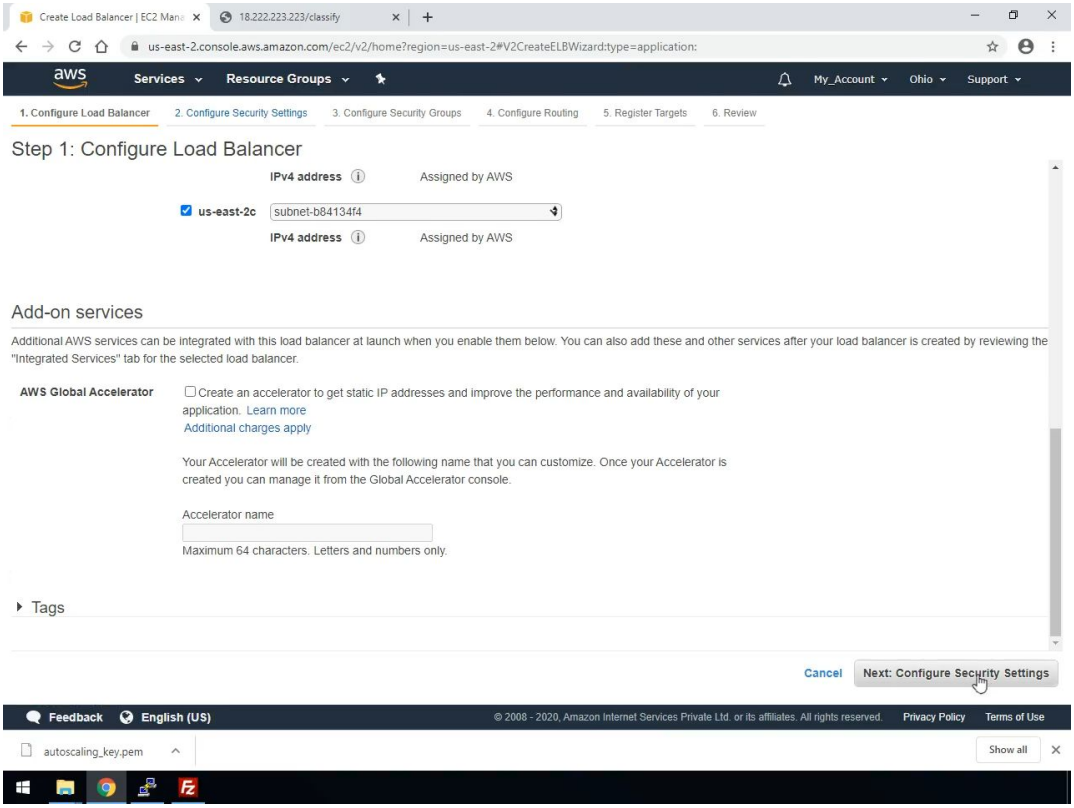
1:29



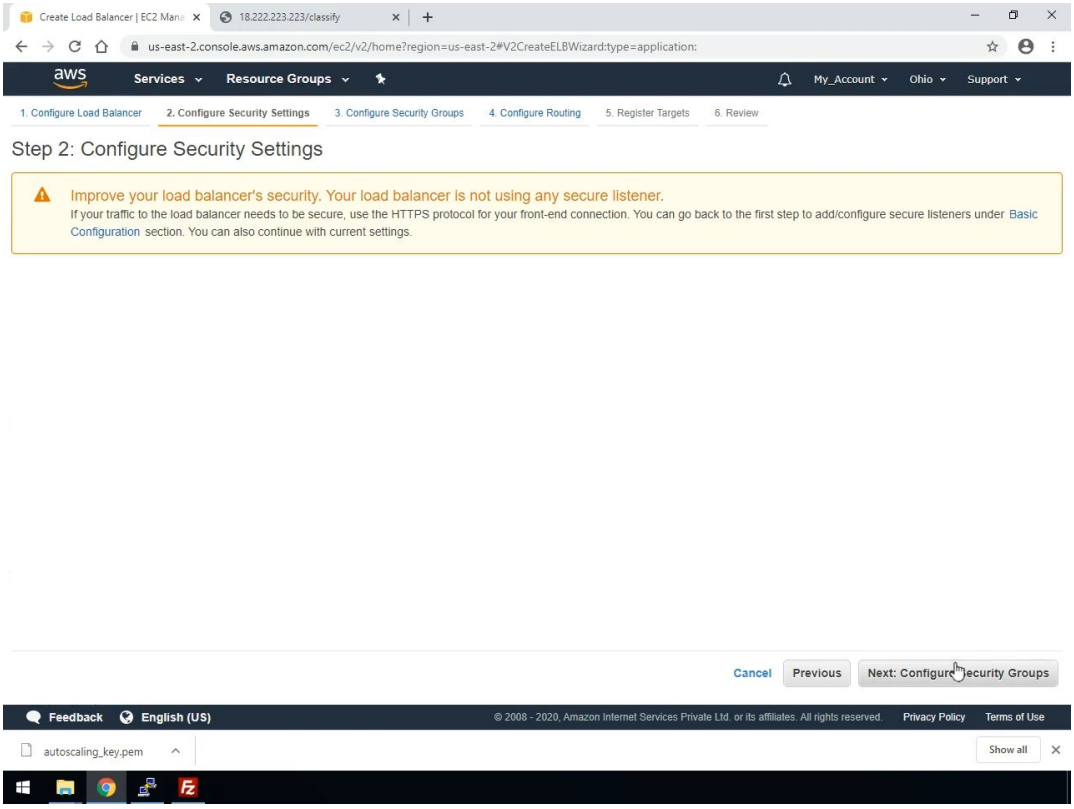
1:45

after selecting AZ's click next

1:50



1:51


Create Load Balancer | EC2 Mana
18.222.223.223/classify
us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#V2CreateELBWizard:type=application:
aws
Services
Resource Groups
My_Account
Ohio
Support
1. Configure Load Balancer
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6. Review
Step 2: Configure Security Settings
Improve your load balancer's security. Your load balancer is not using any secure listener.
If your traffic to the load balancer needs to be secure, use the HTTPS protocol for your front-end connection. You can go back to the first step to add/configure secure listeners under Basic Configuration section. You can also continue with current settings.
Cancel
Previous
Next: Configure Security Groups
Feedback
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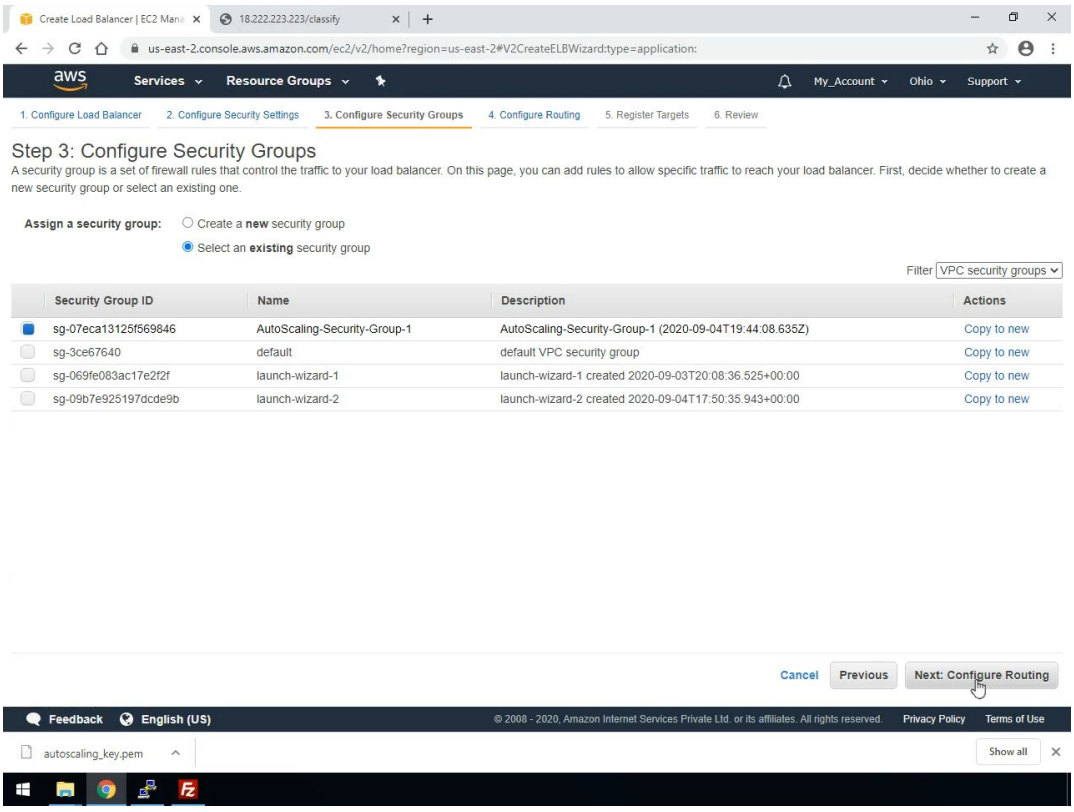
2:07


Create Load Balancer | EC2 Mana
18.222.223.223/classify
us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#V2CreateELBWizard:type=application:
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Step 3: Configure Security Groups
A security group is a set of firewall rules that control the traffic to your load balancer. On this page, you can add rules to allow specific traffic to reach your load balancer. First, decide whether to create a new security group or select an existing one.
Assign a security group:
Create a new security group
Select an existing security group
Filter
VPC security groups
Security Group ID
Name
Description
Actions
sg-07eca13125f569846
AutoScaling-Security-Group-1
AutoScaling-Security-Group-1 (2020-09-04T19:44:08.635Z)
Copy to new
sg-3ce67640
default
default VPC security group
Copy to new
sg-069fe083ac17e2f2f
launch-wizard-1
launch-wizard-1 created 2020-09-03T20:08:36.525+00:00
Copy to new
sg-09b7e925197dcde9b
launch-wizard-2
launch-wizard-2 created 2020-09-04T17:50:35.943+00:00
Copy to new
Cancel
Previous
Next: Configure Routing
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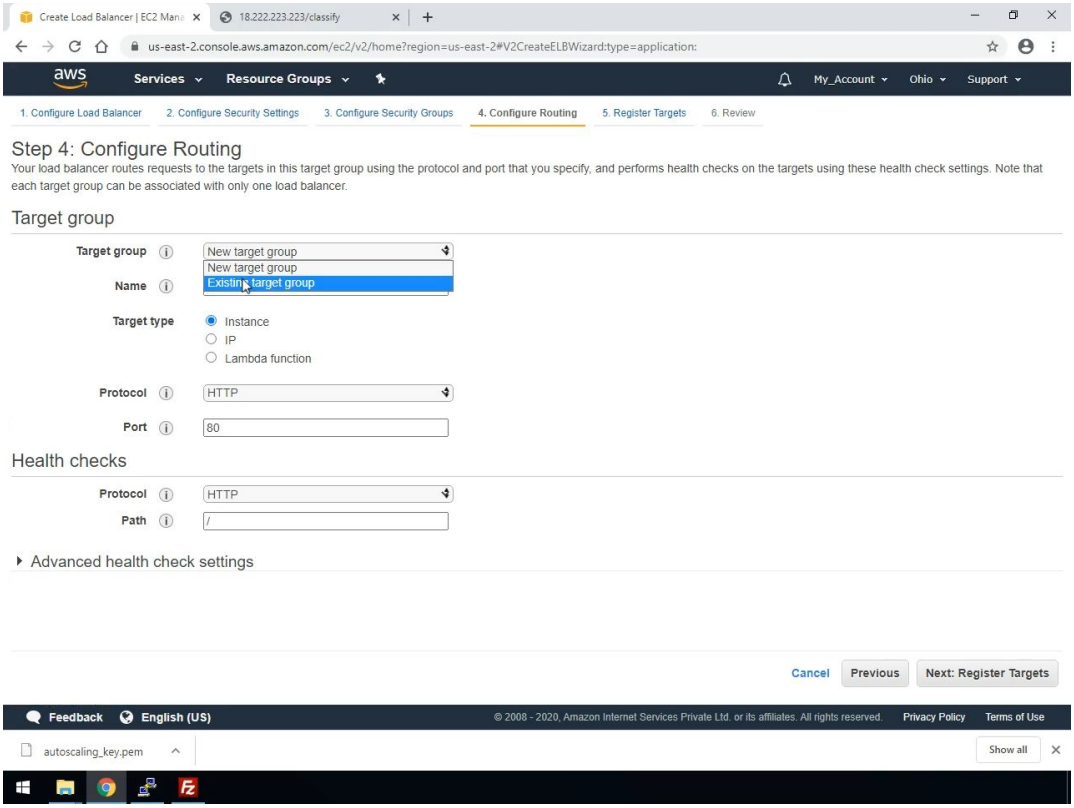
Create Load Balancer | EC2 Mana
18.222.223.223/classify
us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#V2CreateELBWizard:type=application:
aws
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1. Configure Load Balancer
2. Configure Security Settings
3. Configure Security Groups
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Step 4: Configure Routing
Your load balancer routes requests to the targets in this target group using the protocol and port that you specify, and performs health checks on the targets using these health check settings. Note that each target group can be associated with only one load balancer.
Target group
Target group
New target group
New target group
Existing target group
Name
Target type
Instance
IP
Lambda function
Protocol
HTTP
Port
80
Health checks
Protocol
HTTP
Path
/
Advanced health check settings
Cancel
Previous
Next: Register Targets
Feedback
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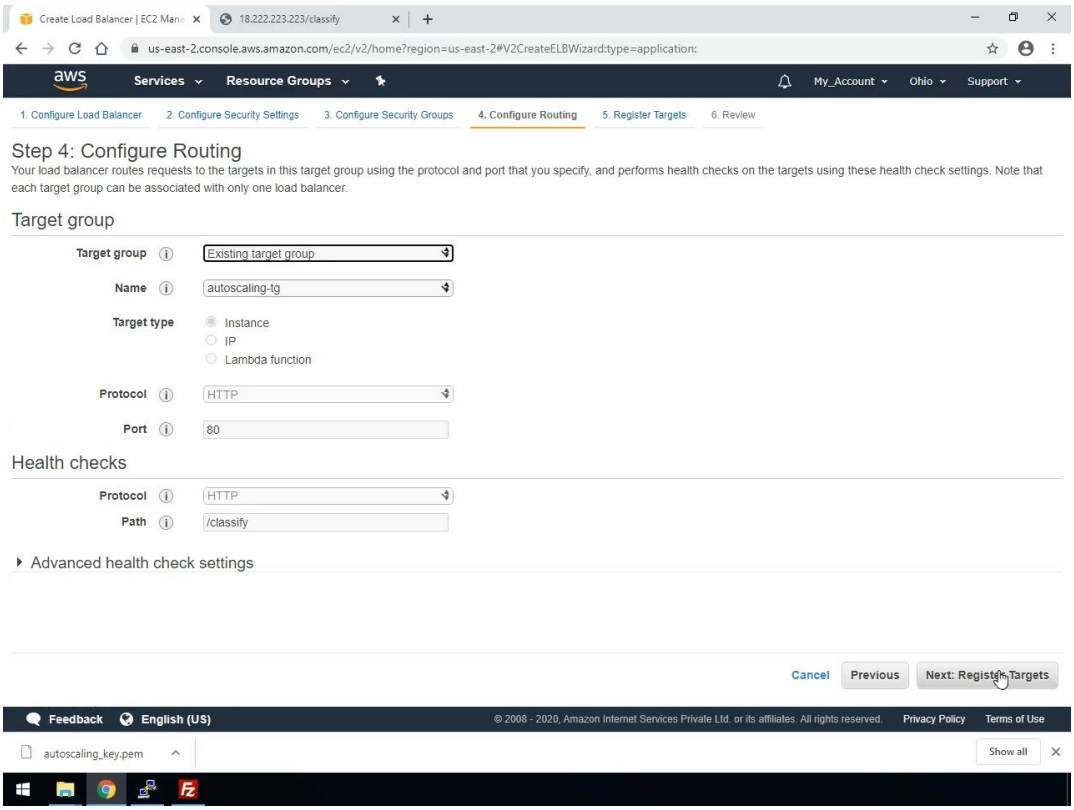
Create Load Balancer | EC2 Mana
18.222.223.223/classify
us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#V2CreateELBWizard:type=application:
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Resource Groups
My_Account
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5. Register Targets
6. Review
Step 4: Configure Routing
Your load balancer routes requests to the targets in this target group using the protocol and port that you specify, and performs health checks on the targets using these health check settings. Note that each target group can be associated with only one load balancer.
Target group
Target group
Existing target group
Name
autoscaling-tg
Target type
Instance
IP
Lambda function
Protocol
HTTP
Port
80
Health checks
Protocol
HTTP
Path
/classify
Advanced health check settings
Cancel
Previous
Next: Register Targets
Feedback
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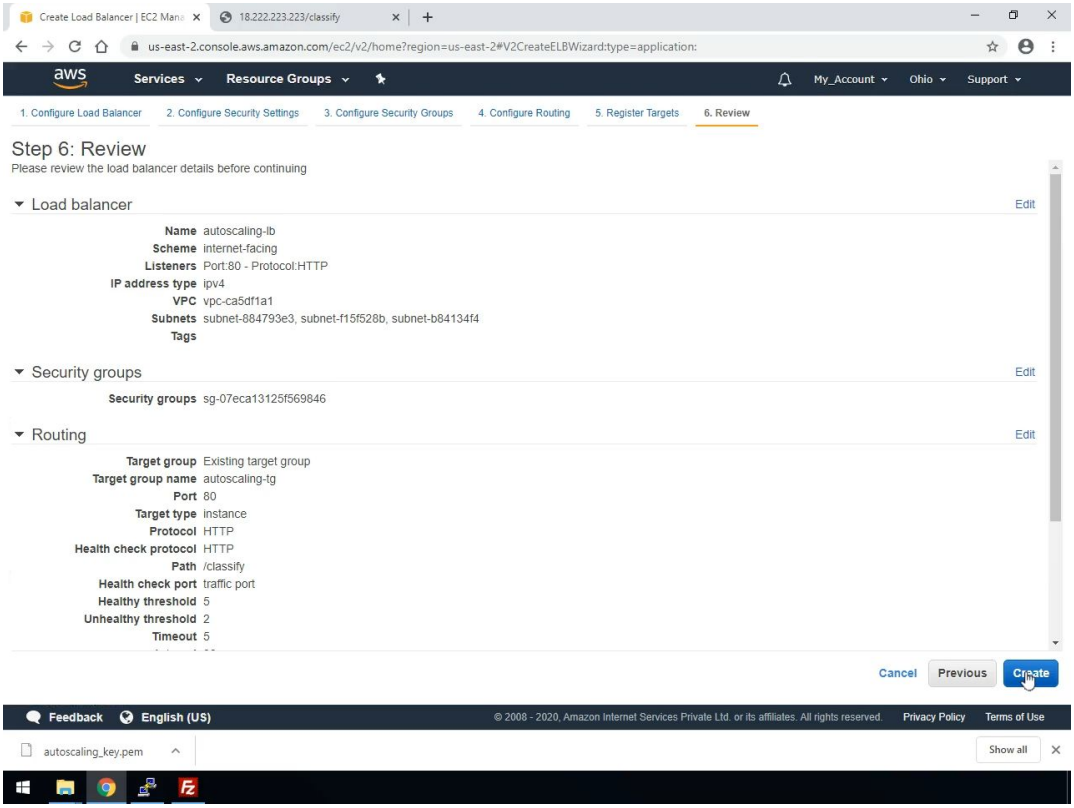
2:55


Create Load Balancer | EC2 Mana
18.222.223.223/classify
us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#V2CreateELBWizard:type=application:
aws
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Resource Groups
My_Account
Ohio
Support
1. Configure Load Balancer
2. Configure Security Settings
3. Configure Security Groups
4. Configure Routing
5. Register Targets
6. Review
Step 6: Review
Please review the load balancer details before continuing
Load balancer
Edit
Name autoscaling-lb
Scheme internet-facing
Listeners Port:80 - Protocol:HTTP
IP address type ipv4
VPC vpc-ca5df1a1
Subnets subnet-884793e3, subnet-f15f528b, subnet-b84134f4
Tags
Security groups
Edit
Security groups sg-07eca13125f569846
Routing
Edit
Target group Existing target group
Target group name autoscaling-tg
Port 80
Target type instance
Protocol HTTP
Health check protocol HTTP
Path /classify
Health check port traffic port
Healthy threshold 5
Unhealthy threshold 2
Timeout 5
Cancel
Previous
Create
Feedback
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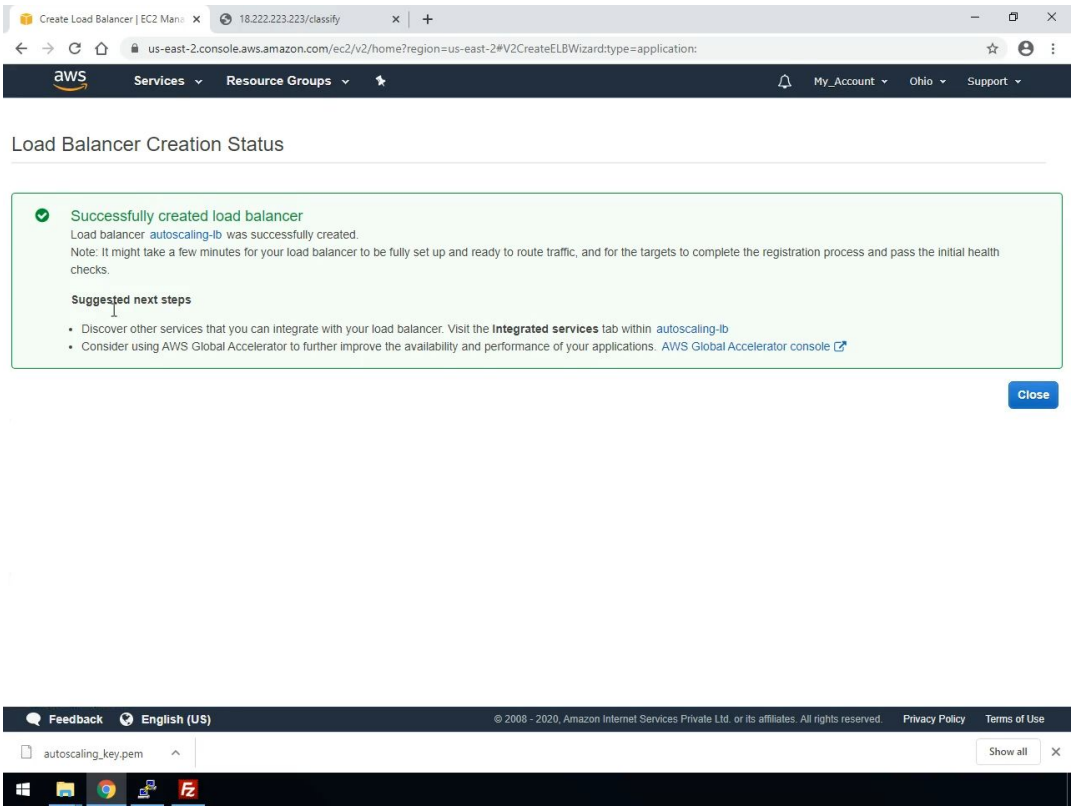
3:22


Create Load Balancer | EC2 Mana
18.222.223.223/classify
us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#V2CreateELBWizard:type=application:
aws
Services
Resource Groups
My_Account
Ohio
Support
Load Balancer Creation Status
Successfully created load balancer
Load balancer autoscaling-lb was successfully created.
Note: It might take a few minutes for your load balancer to be fully set up and ready to route traffic, and for the targets to complete the registration process and pass the initial health checks.
Suggested next steps
Discover other services that you can integrate with your load balancer. Visit the Integrated services tab within autoscaling-lb
Consider using AWS Global Accelerator to further improve the availability and performance of your applications. AWS Global Accelerator console
Close
Feedback
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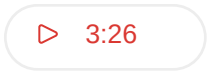
3:26